

REMARKS

The Office Action dated June 5, 2006, and the Advisory Action dated September 25, 2006, has been received and carefully noted. The above amendments to the claims, and the following remarks, are submitted as a full and complete response thereto.

Claims 1, 3-17, 19-49 have been amended to more particularly point out and distinctly claim the subject matter of the invention. No new matter has been added, and no new issues are raised which require further consideration and/or search. Claims 2 and 18 have been cancelled. Claims 1, 2-17 and 19-49 are submitted for consideration.

Claims 1-21 and 45-49 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the applicant regards as the invention. Specifically, claims 1, 17 and 45 were rejected because the Office Action alleged that the phrase “recipients are registered by creating a linked list tree” is indefinite. Claims 1-21 and 45-59 have been amended to overcome this rejection. Therefore, Applicant requests that the rejection be withdrawn.

Claims 1, 3-17 and 19-49 were rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,185,613 (Lawson). The rejection is traversed as being based on a reference that neither teaches nor suggests the novel combination of features clearly recited in independent claims 1 and 17, 33, 37 and 41-44, and the dependent claims thereon.

Claim 1, upon which claims 3-16 depend, recites including registering one or more recipient processes desirous of receiving one or more events with a data distribution

process and receiving events at the data distribution process. The method also includes in response to receiving events at the distribution process, determining if the one or more recipient processes are registered to receive the event. The one or more recipient processes are registered by creating a linked list tree including an event link list logically linking one or more event entries. Each of the event entries is associated with one of the events, and at least one of one or more process linked list logically links respective recipient process entries. Each of the recipient process entries is associated with the one or more recipient processes desirous of receiving one or more event. In response to the determination, forwarding the received event from the distribution process to the one or more recipient processes if the one or more recipient processes are registered to receive the event or dropping the event if the one or more recipient processes are not registered to receive the event.

Claim 17, upon which claims 19-32 depend, recites a including a registering unit configured to register one or more recipient processes desirous of receiving one or more events with a distribution process. The one or more recipient processes are registered by creating a linked list tree including an event link list logically linking one or more event entries. Each of the event entries is associated with one of the events, and at least one of one or more process linked list logically links respective recipient process entries. Each of the recipient process entries is associated with the one or more recipient processes desirous of receiving one or more events. The system also includes a determining unit configured to determine if the one or more recipient processes are registered to receive

the event in response to receiving events at the distribution process. The system also includes a forwarding unit configured to forward the received event from the distribution process to the one or more recipient processes if the one or more recipient processes are registered to receive the event or dropping the event, if the one or more recipient processes are not registered to receive the event.

Claim 33, upon which claims 34-36 depend, recites a method including registering one or more recipient processes desirous of receiving one or more events with a distribution process by creating a linked list tree including an event linked list logically linking one or more event entries. Each of the event entries is associated with one of the events, and one of one or more process linked lists logically links respective recipient process entries. Each of the process recipient process entries is associated with the one or more recipient processes desirous of receiving one or more events and each of the one or more process linked lists is associated with one of the event entries in the event linked list. The method includes receiving an event at the distribution process, determining if the one or more recipient processes are registered to receive the event, and forwarding the received event from the distribution process to the one or more recipient processes if the one or more recipient processes are registered to receive the event or dropping the event, if the one or more recipient processes are not registered to receive the event.

Claim 37, upon which claims 38-40 depend, recites a system including a linked list tree having an event linked list logically linking one or more event entries. Each of the event entries is associated with one of the events and one of one or more process

linked lists logically linking respective recipient process entries associated with one or more recipient processes. Each of the one or more process linked lists is associated with one of the event entries in the event linked list. The system also includes means for receiving events at the distribution process, means for parsing the linked list tree for determining if the one or more recipient processes are registered to receive a received the event, and means for forwarding the received event to the one or more recipient processes if the one or more recipient processes are registered to receive the event or dropping the event, if the one or more recipient processes are not registered to receive the event.

Claim 41 recites a method including registering one or more recipient processes desirous of receiving one or more events with a distribution process by creating a linked list tree including an event linked list logically linking one or more event entries. Each of the event entries is associated with one of the events, and one of one or more process linked lists logically links respective recipient process entries. Each of the process recipient process entries is associated with the one or more recipient processes desirous of receiving one or more events, and each of the one or more process linked lists is associated with one of the event entries in the event linked list. The method also includes receiving an event at the distribution process, determining if the one or more recipient processes are registered to receive the event, forwarding the received event from the distribution process to the one or more recipient processes if the one or more recipient processes are registered to receive the event or dropping the event, if the one or more recipient processes are not registered to receive the event, if the one or more recipient

processes are not registered to receive the event, and updating the event linked list for adding a subsequent event entry.

Claim 42 recites a method including registering one or more recipient processes desirous of receiving one or more events with a distribution process by creating a linked list tree including an event linked list logically linking one or more event entries. Each of the event entries is associated with one of the events, and one of one or more process linked lists logically links respective recipient process entries. Each of the process recipient process entries associated with the one or more recipient processes is desirous of receiving one or more events, and each of the one or more process linked lists is associated with one of the event entries in the event linked list. The method also includes receiving an event at the distribution process, determining if the one or more recipient processes are registered to receive the event, setting an event control in the event entry indicating to send the event or to not send the event, and forwarding the received event to the distribution process to the one or more recipient processes if the one or more recipient processes are registered to receive the event and the event control indicates to sent the event or dropping the event, if the one or more recipient processes are not registered to receive the event or the event control indicated not to send the event.

Claim 43 recites a system including a linked list tree having an event linked list logically linking one or more event entries. Each of the event entries is associated with one of the events and one of one or more process linked lists logically linking respective recipient process entries associated with one or more recipient processes. Each of the one

or more process linked lists is associated with one of the event entries in the event linked list. The system also includes means for receiving events at the distribution process, means for determining if the one or more recipient processes are registered to receive a received the event, means for setting an event control in the event entry indicating to send the event or to not send the event, and means for forwarding the received event to the one or more recipient processes if the one or more recipient processes are registered to receive the event and the event control indicates to sent the event or dropping the event, if the one or more recipient processes are not registered to receive the event or the event control indicated not to send the event.

Claim 44, upon which claims 45-49 depend, recites a computer program product within a computer readable medium for causing distribution of events in a data processing system including instruction means for causing a distribution process to register one or more recipient processes desirous of receiving one or more events. The computer program product also includes instruction means for receiving events at the data distribution process, instruction means for causing a determination if the one or more recipient processes are registered to receive the event in response to receiving events at the distribution process, and instruction means for causing forwarding of the received event from the distribution process to the one or more recipient processes if the one or more recipient processes are registered to receive the event or dropping the event, if the one or more recipient processes are not registered to receive the event.

As will be discussed below, the cited prior art reference of Lawson fails to disclose or suggest the elements of any of the presently pending claims.

Lawson teaches an event notification system which allows local event consumers to register for notification of an event and sends notification events that occur to registered local event consumers. The system includes a global event registry with lists of events and a corresponding list of servers which need notification when the corresponding event occurs. Each server stores a local event registry with lists of events and a corresponding list of consumers which need notification when an event occurs. Each server registers for events desired by local event consumers. When an event consumer registers for an event, the event globalization process of the event consumer's local server places an entry in the local event registry and the global event register for the local server where the event consumer is located. Col. 4, line 41-Col. 5, line 7.

Applicant submits that Lawson simply does not teach or suggest each of the elements recited in the pending claims. Claims 1, 17, 33, 37 and 41-43 recite, in part, the one or more recipient processes are registered by creating a linked list tree including an event linked list logically linking one or more event entries, each of the event entries associated with one of the events, and at least one of one or more process linked list logically linking respective recipient process entries, each of the recipient process entries associated with the one or more recipient processes desirous of receiving one or more events. Lawson does not teach or suggest a linked list tree with an event linked list and at least one of one or more process linked list logically linking respective recipient process

entries. Lawson merely discloses that the global event register and the plurality of local event registries include a list of events and a corresponding list of servers/consumer that should be notified when an event occurs. There is no teaching or suggestion in Lawson of the one or more recipient processes are registered by creating a linked list tree including an event linked list logically linking one or more event entries, each of the event entries associated with one of the events, and at least one of one or more process linked list logically linking respective recipient process entries, each of the recipient process entries associated with the one or more recipient processes desirous of receiving one or more events, as recited in claims 1, 17, 33, 37 and 41.

The Office Action cites Col. 11, line 49-Col. 12, line 2 of Lawson as disclosing wherein the one or more recipient processes are registered by creating a linked list tree comprising an event linked list logically linking one or more event entries, each of the event entries associated with one of the events, and at least one of one or more process linked list logically linking respective recipient process entries, each of the recipient process entries associated with the one or more recipient processes desirous of receiving one or more events, as recited in claims 1, 17, 33, 37 and 41. Upon review, the cited section of Lawson merely discloses that specific types of events may be defined in the system. For example, according to Lawson, an intelligent query event and a broker event may be registered as event consumers, such that received acknowledgements or responses may specify that the event arrived at a certain broker or was undeliverable. Although, Col. 9, lines 15-24 of Lawson indicates that an event consumer should be broadly

interpreted to include any process, user, device or other items that desires notification of an event, there is no teaching or suggestion in Lawson of registering one or more recipient processes by creating a linked list tree comprising an event linked list logically linking one or more event entries and at least one of one or more process linked list logically linking respective recipient process entries, as recited in claims 1, 17, 33, 37 and 41. Therefore, Applicant respectfully asserts that the rejection under 35 U.S.C. §102(e) should be withdrawn because Lawson does not teach or suggest each feature of claims 1, 17, 33, 37 and 41 and hence, the dependent claims thereon.

As noted previously, claims 1, 2-17 and 19-49 recite subject matter which is neither disclosed nor suggested in the prior art references cited in the Office Action. It is therefore respectfully requested that all of claims 1, 2-17 and 19-49 be allowed and this application passed to issue.

If for any reason the Examiner determines that the application is not now in condition for allowance, it is respectfully requested that the Examiner contact, by telephone, the applicants' undersigned attorney at the indicated telephone number to arrange for an interview to expedite the disposition of this application.

In the event this paper is not being timely filed, the applicants respectfully petition for an appropriate extension of time. Any fees for such an extension together with any additional fees may be charged to Counsel's Deposit Account 50-2222.

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Enclosures: RCE Transmittal
Petition for Extension of Time
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